HaulPass™ – Electronic Debris Data Management System

ACI Briefing

August 29, 2006

Patent Pending

INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS AND CONSULTANTS

MALCOLM PIRNIE

Solution Offering – Introducing HaulPass™

- Paperless electronic (PDA based) data collection
- Only two elements of the traditional load ticket (debris type and load call) are manually entered
- Automation of debris pickup location thru GPS/GIS technologies
- Evaluation of daily event status using web-based reporting and GIS tools
- Coordination of contractor invoices, FEMA documentation and applicant payment processes enabled by HaulPass integration

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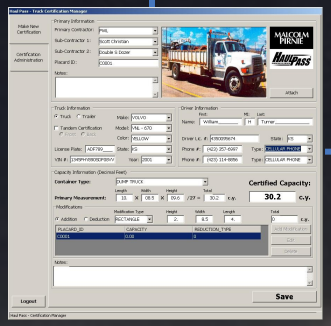
HaulPass™ – Conceptual Overview

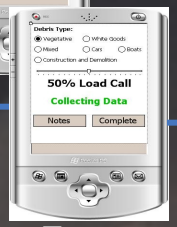
Manual Ticket Entry
(Backup Only)



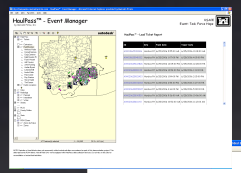
Vehicle Certification
Manager

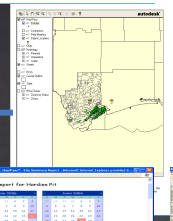
Ticket
Manager

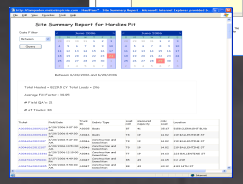
HaulPass
(in transit)

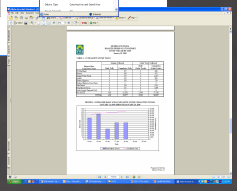


Tower
Manager



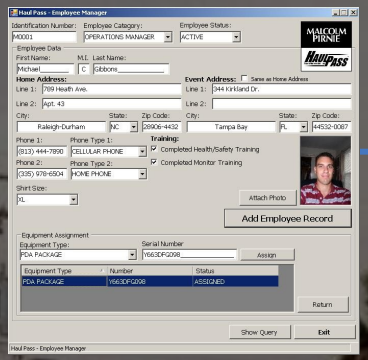






Event
Manager

Paper
Ticket(s)



QA Resource
Manager

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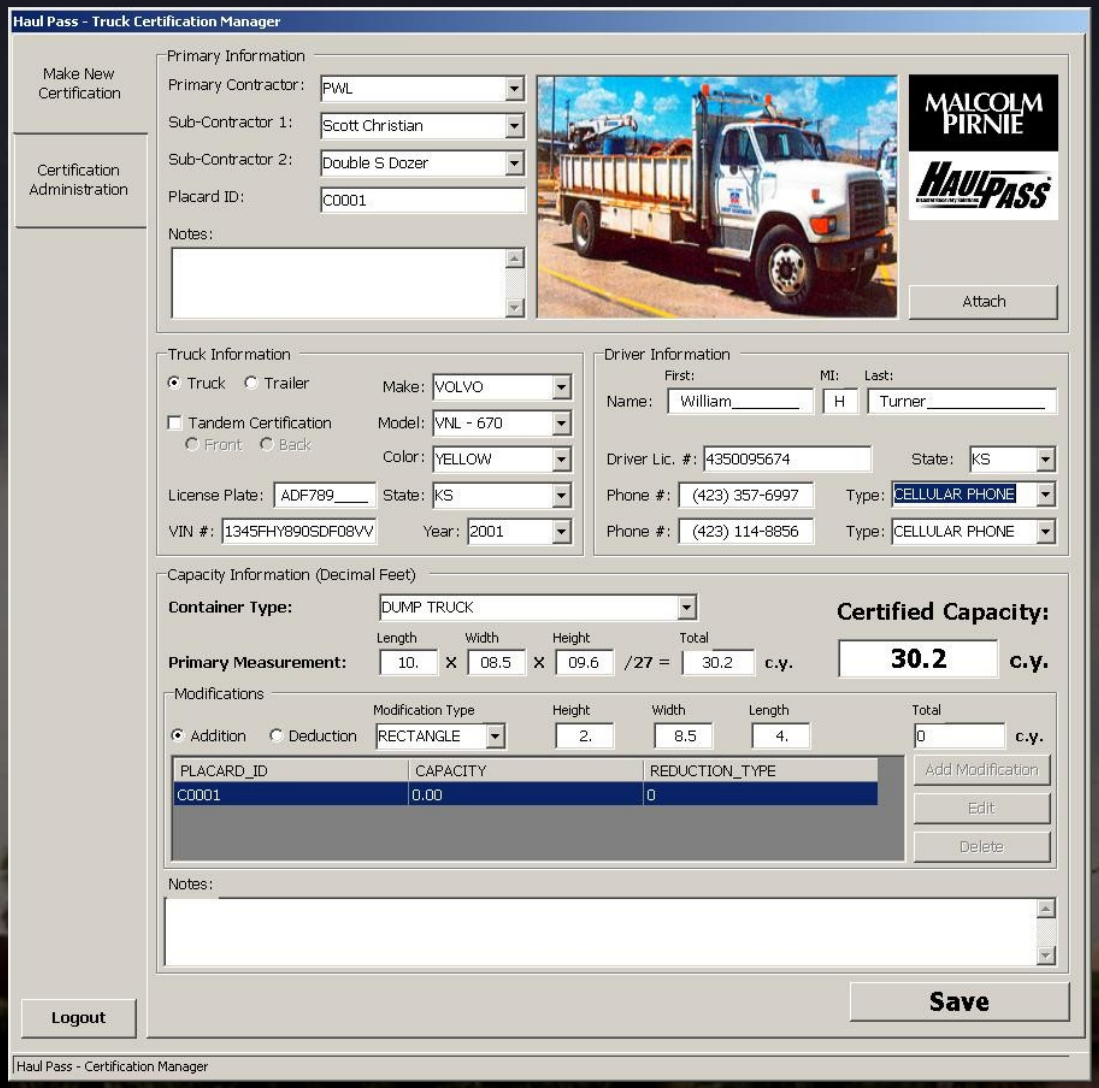
HaulPass™ – Truck Certification Manager



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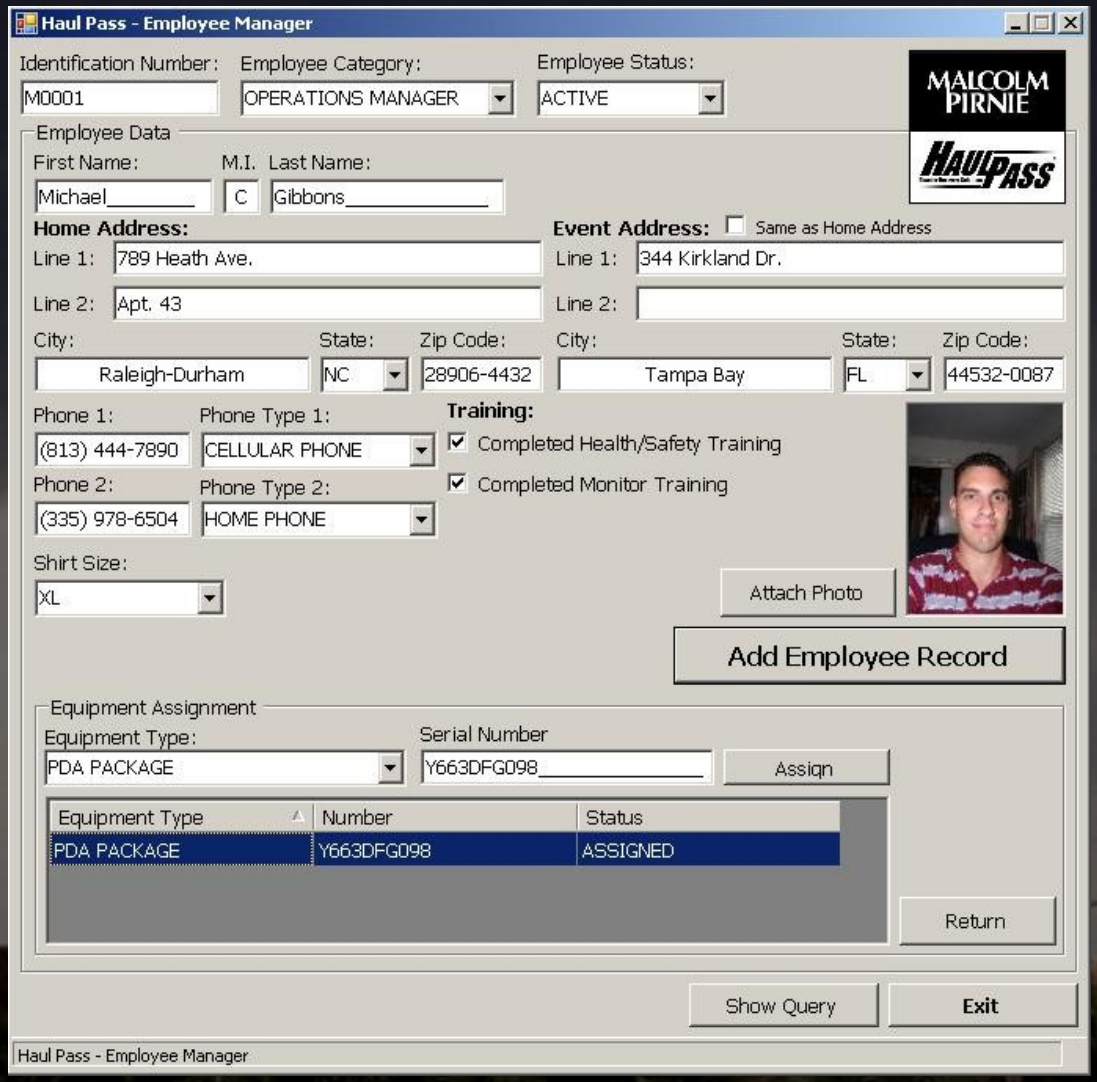
HaulPass™ – QA Resource Manager



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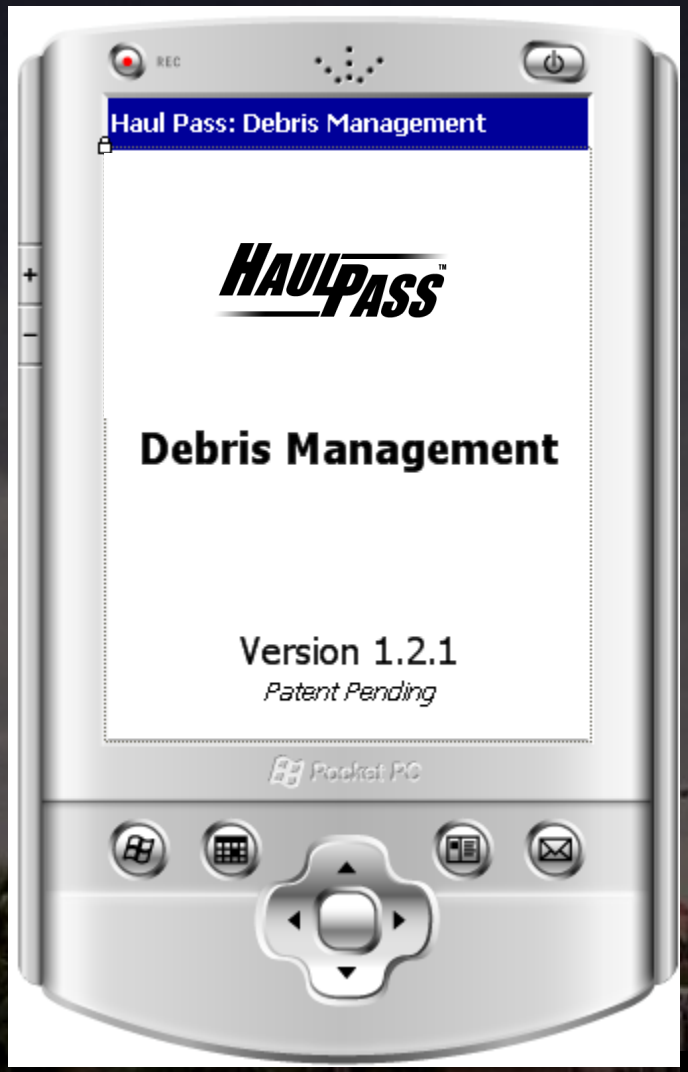
Operating HaulPass™ – Ticket Manager

1. Press the Power Button in the top center of the PDA – PDA will start up.
2. PDA will present Login screen.

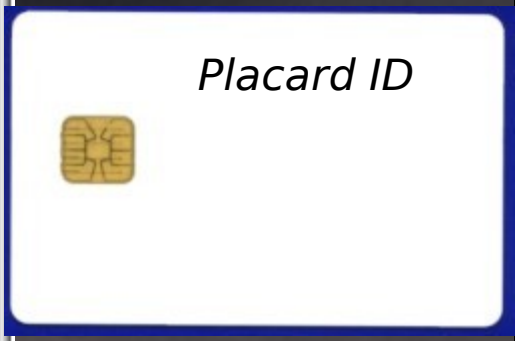


Ticket Manager - Login

1. To log in to HaulPass, insert your ID badge in the card reader attached to the PDA. The card slot is on the right side of the PDA.
2. When the system recognizes a valid ID card, the Login button will become active.
3. Press the Login button.

Ticket Manager – Make Ticket

1. After login, you will see the Make Ticket screen at the right.
2. Driver will present you with a HaulPass ID card. Insert this into card slot and press Make Ticket.
3. When Ticket made appears, remove card and return to driver.
4. Screen will reset for the next HaulPass card.



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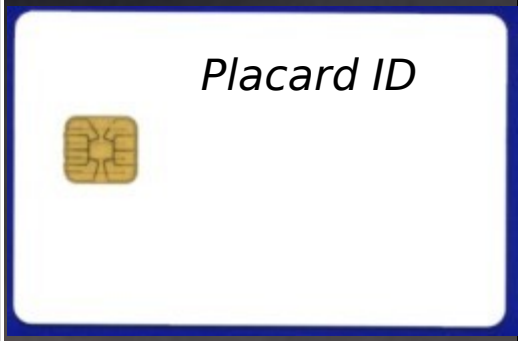
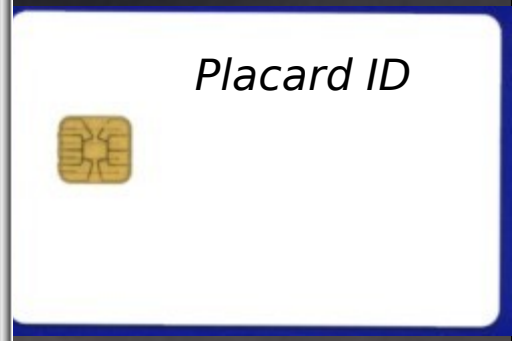
Tower Manager – Receive HaulPass™

1. After login, you will see the Insert HaulPass screen at the right.
2. Driver will present his/her HaulPass. Insert this into card slot.
3. If HaulPass is valid (i.e. ticket info is on card), OK button will be made available.
4. Press OK to go to the next step.



Tower Manager – Confirm Placard

1. On this screen, confirm the measured capacity on the truck placard to the data on screen.
2. Confirm the picture of the truck on screen matches and no alterations have been made.
3. If truck data is not yet available, utilize the override function with supervisor approval.



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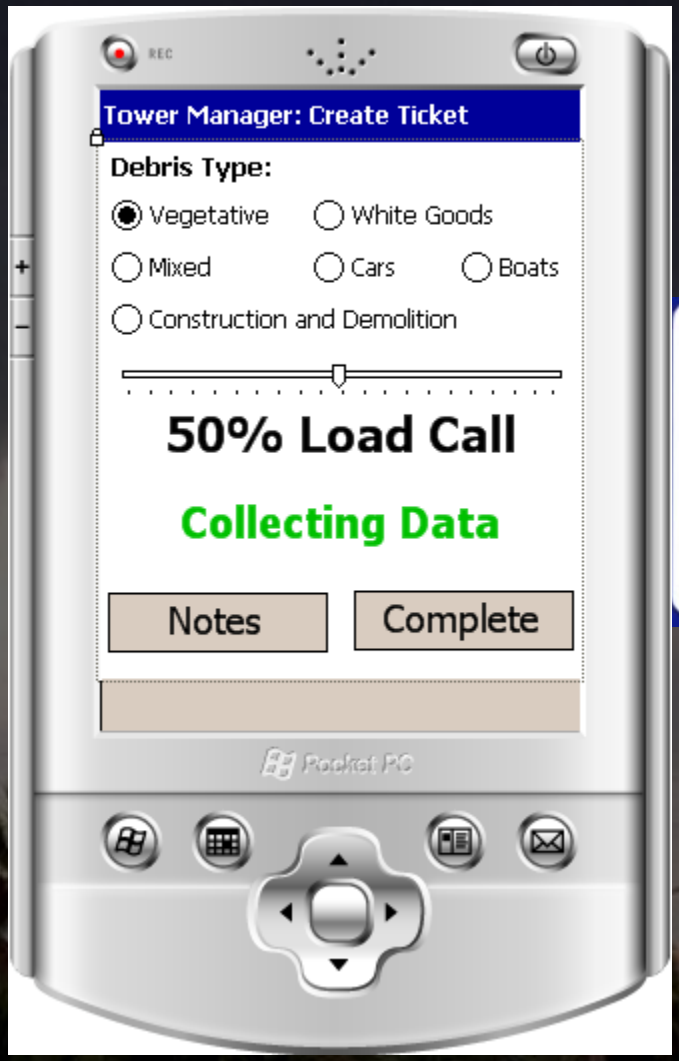
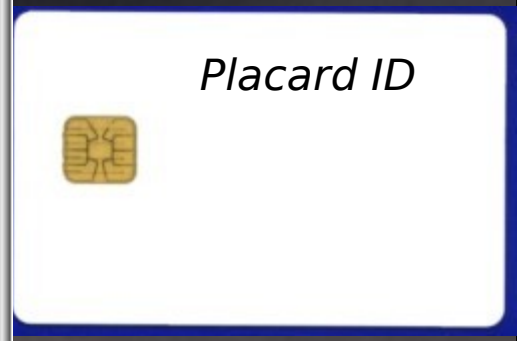
Tower Manager – Load Call and Create Ticket

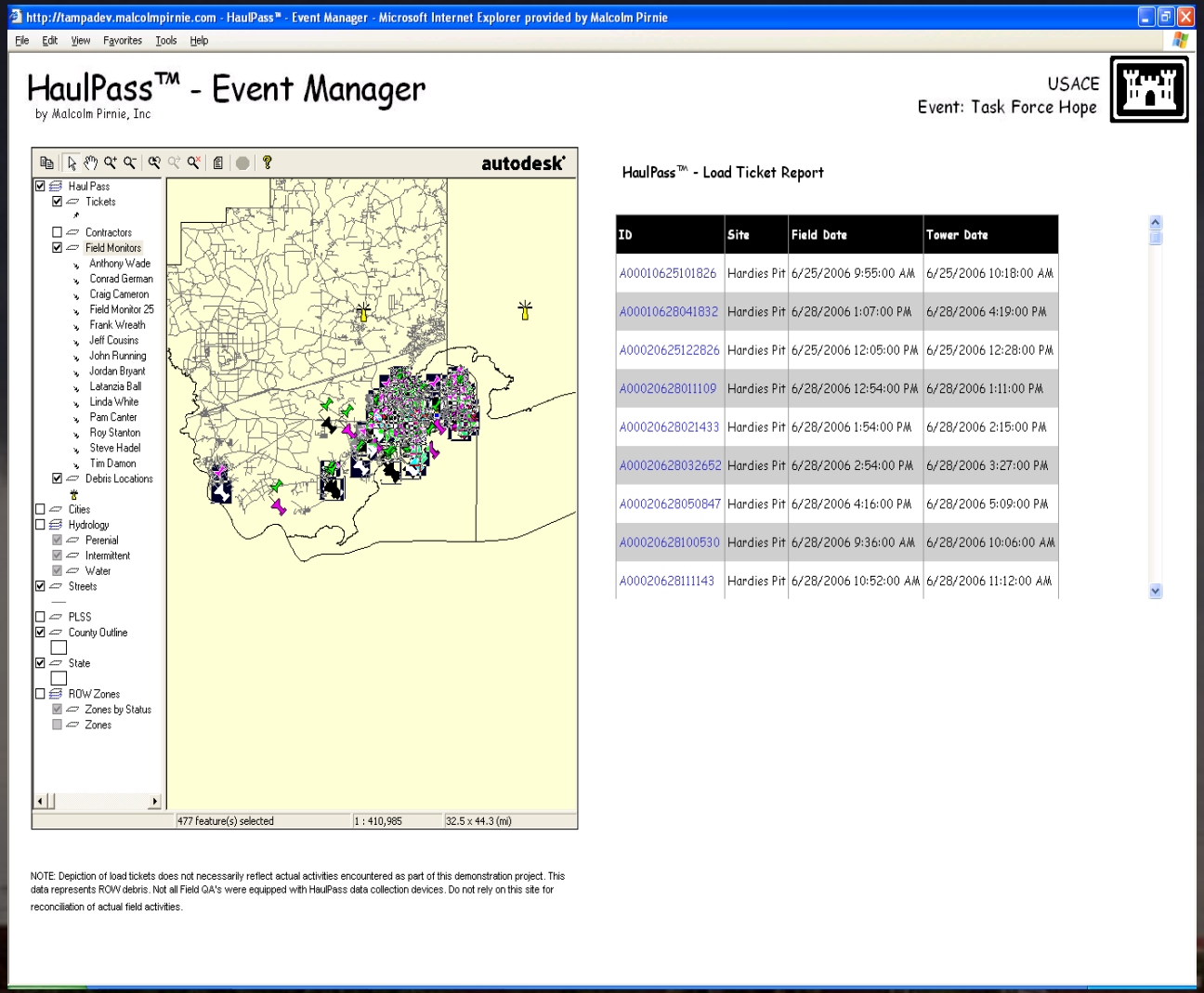
1. On this screen, select the debris type by clicking on the appropriate button.
2. Using the stylus, drag the slider bar to the appropriate load call percent.
3. Press the Complete button.
4. System will inform you it is printing ticket.
5. At this point, the PDA will reset to prepare for the next ticket and erase the ticket data from he HaulPass card.





Event Manager – Online Data Management

- Monitor project status and debris work locations on a daily basis.
- Sort and view data by date, contractor, QA, dumpsite, etc.
- Access single or consolidated site summary reports.
- Download contractor invoice data.
- Perform operational efficiency analyses.


http://tampadev.malcolmpirnie.com - HaulPass™ - Event Manager - Microsoft Internet Explorer provided by Malcolm Pirnie
File Edit View Favorites Tools Help
HaulPass™ - Event Manager
by Malcolm Pirnie, Inc
USACE
Event: Task Force Hope
autodesk
Haul Pass
Tickets
Contractors
Field Monitors
Anthony Wade
Conrad German
Craig Cameron
Field Monitor 25
Frank Wreath
Jeff Cousins
John Running
Jordan Bryant
Latanzia Ball
Linda White
Pam Canter
Roy Stanton
Steve Hadel
Tim Damon
Debris Locations
Cities
Hydrology
Perenial
Intermittent
Water
Streets
PLSS
County Outline
State
ROW Zones
Zones by Status
Zones
477 feature(s) selected
1 : 410,985
32.5 x 44.3 (mi)
HaulPass™ - Load Ticket Report
ID
Site
Field Date
Tower Date
A00010625101826 Hardies Pit 6/25/2006 9:55:00 AM 6/25/2006 10:18:00 AM
A00010628041832 Hardies Pit 6/28/2006 1:07:00 PM 6/28/2006 4:19:00 PM
A00020625122826 Hardies Pit 6/25/2006 12:05:00 PM 6/25/2006 12:28:00 PM
A00020628011109 Hardies Pit 6/28/2006 12:54:00 PM 6/28/2006 1:11:00 PM
A00020628021433 Hardies Pit 6/28/2006 1:54:00 PM 6/28/2006 2:15:00 PM
A00020628032652 Hardies Pit 6/28/2006 2:54:00 PM 6/28/2006 3:27:00 PM
A00020628050847 Hardies Pit 6/28/2006 4:16:00 PM 6/28/2006 5:09:00 PM
A00020628100530 Hardies Pit 6/28/2006 9:36:00 AM 6/28/2006 10:06:00 AM
A00020628111143 Hardies Pit 6/28/2006 10:52:00 AM 6/28/2006 11:12:00 AM
NOTE: Depiction of load tickets does not necessarily reflect actual activities encountered as part of this demonstration project. This data represents ROW debris. Not all Field QA's were equipped with HaulPass data collection devices. Do not rely on this site for reconciliation of actual field activities.

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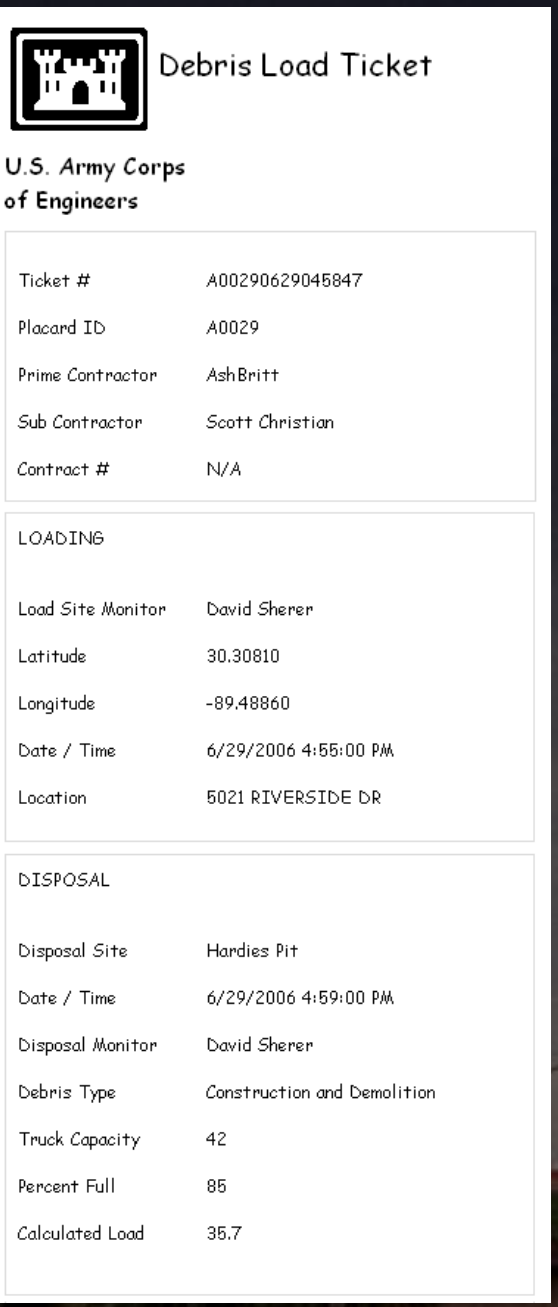
Sample Load Ticket

- Duplicate ticket available via Event Manager.
- Post processing of data results in actual street address and QA Monitor/Tower Monitor names on ticket.



Debris Load Ticket

U.S. Army Corps of Engineers

Ticket #	A00290629045847
Placard ID	A0029
Prime Contractor	AshBritt
Sub Contractor	Scott Christian
Contract #	N/A

LOADING

Load Site Monitor	David Sherer
Latitude	30.30810
Longitude	-89.48860
Date / Time	6/29/2006 4:55:00 PM
Location	5021 RIVERSIDE DR

DISPOSAL

Disposal Site	Hardies Pit
Date / Time	6/29/2006 4:59:00 PM
Disposal Monitor	David Sherer
Debris Type	Construction and Demolition
Truck Capacity	42
Percent Full	85
Calculated Load	35.7

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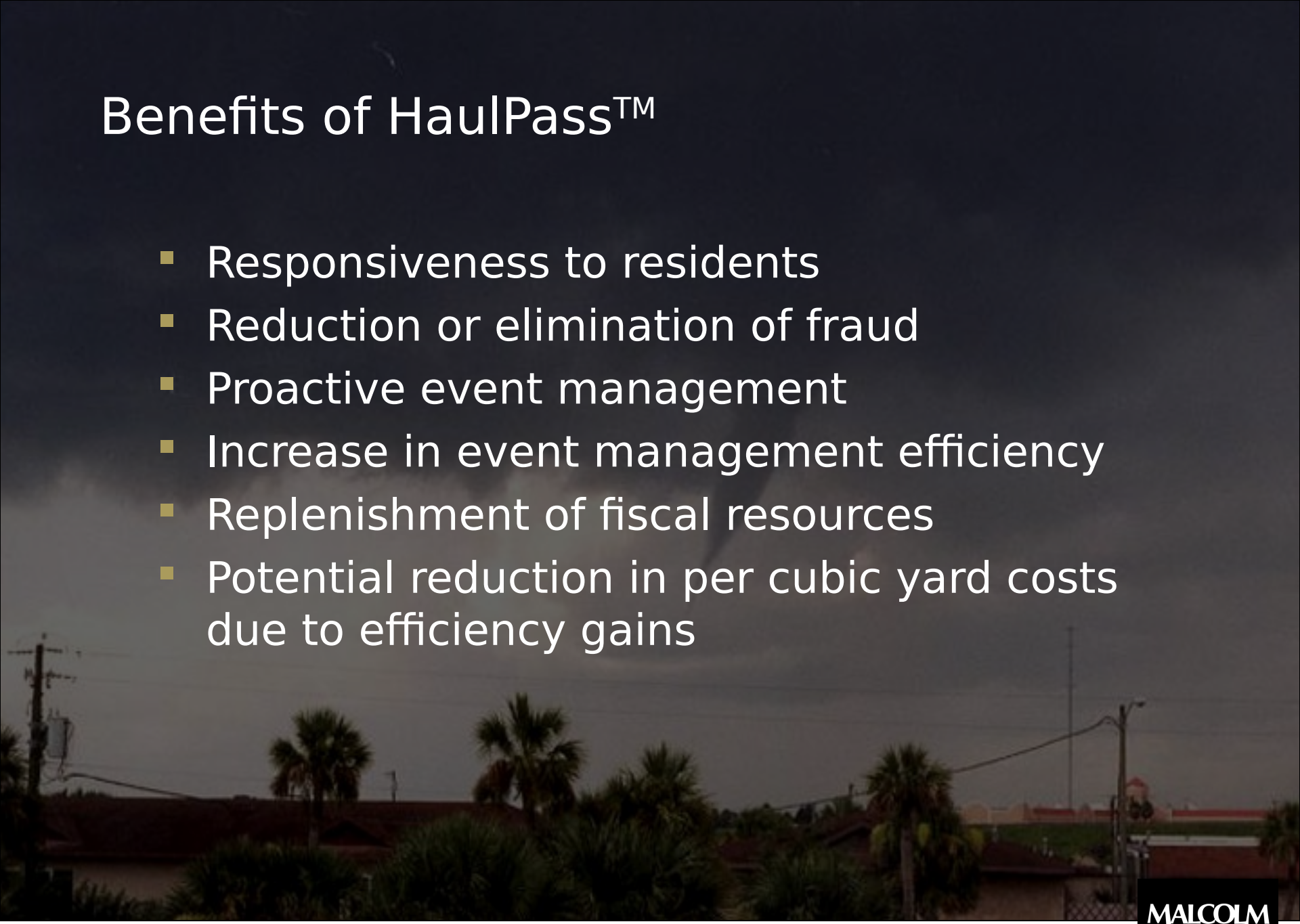
Benefits of HaulPass™

- Responsiveness to residents
- Reduction or elimination of fraud
- Proactive event management
- Increase in event management efficiency
- Replenishment of fiscal resources
- Potential reduction in per cubic yard costs due to efficiency gains



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Other Benefits

- Elimination of ticket data entry
- Direct feed to invoicing applications
- Rapid reconciliation of contractor/subcontractor billing issues
- Resource utilization, tracking and time management
- Reduce hauling costs
- Conservation of scarce resources (fuel)/ traffic management

HaulPass™

Questions?

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